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TITLE: Porous heat sink

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ABSTRACTED-PUB-NO: KR2001035209A

BASIC-ABSTRACT:

NOVELTY - A porous heat sink is provided to reduce the size of the heat sink while improving heat exchange efficiency per unit area by increasing heat releasing surface area without changing the structure of a radiator.

DETAILED DESCRIPTION - A radiator(10) is made up of an aluminum and consists of a radiation plate(12) arranged in horizontal direction and radiation fins(14) arranged in vertical direction. The radiator is formed to have a porous structure through a foaming or a sintering process. Alternatively, the radiator is formed into a simple plate through an extrusion or a casting process. The space between the radiation fins of the radiator accommodates a porous body(22) made up of an aluminum which is inserted into the space through a foaming or a sintering process. Alternatively, the radiator has the radiation plate which is formed into a simple plate shape, and the porous body made up of an aluminum is coupled onto the radiation plate, while eliminating the radiation fins from the radiator.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: POROUS HEAT SINK

